UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attomey Docket No.	P06604US00 KANG, SEOGCHAN, t al. A DUAL SELECTION BASED, TARGETED GENE DISRUPTION METHOD FOR FUNGI AND FUNGUS-LIKE ORGANISMS				
First Inventor					
Title					
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APPLICATION ELEMENTS SEE MPEP chapter 600 concerning utility patent application contents.			ADDRESS TO: Mall Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450				U.S. P	
1. See Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages: 60] (preferred arrangement set forth below) -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R & D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Summary of the Invention -Brief Description of the Drawings (if filed) -Detailed Description -Claim(s) -Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets: 8] 5. Oath or Declaration [Total Sheets: 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b) 6. Application Data Sheet. See 37 CFR 1.76			Alexandria VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission fif applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Dapper c. Statements verifying identity of above copies					
		ACCOMPANYING APPLICATION PARTS						
		9. Assignment Papers (cover sheet & documents(s)) 10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Citations Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other:						
	on Data Sheet. See 37 CFR 1.76		<u> </u>					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner: Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, Is considered a part of the disclosure of the accompanying continuation or divisional application and Is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
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Name (Print/Type)	EDMUND J. SEASE		Registration No. (A	ttomey/Agent)		24,741		
Signature	AMAN M				Date	February 12, 20	004	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL Application Number for FY 2004 February 12, 2004 Filing Date KANG, Seogchan, et al. First Named Inventor Effective 10/01/2003. Patent fees are subject to annual revision. Examiner Name ✓ Applicant claims small entity status. See 37 CFR 1.27 Art Unit TOTAL AMOUNT OF PAYMENT (\$) 962.00P06604US00 Attorney Docket No METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) ✔ Check Credit card Money 3. ADDITIONAL FEES Other None Order Large Entity | Small Entity ✓ Deposit Account: Fee Fee Fee Description Deposit Code Code (\$) (\$) Fee Paid 26-0084 Account Number 1051 130 2051 65 Surcharge - late filing fee or oath Deposit 1052 50 2052 Surcharge - late provisional filing fee or McKee, Voorhees & Sease, PLC cover sheet Name 1053 130 Non-English specification 1053 130 The Director is authorized to: (check all that apply) 1812 2,520 1812 2,520 For filing a request for ex parte reexamination Charge fee(s) indicated below Credit any overpayments 1804 920 1804 920* Requesting publication of SIR prior to Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee Requesting publication of SIR after 1805 1.840° 1805 1.840* to the above-identified deposit account. Examiner action 1251 2251 110 Extension for reply within first month **FEE CALCULATION** 420 2252 210 Extension for reply within second month 1252 1. BASIC FILING FEE 1253 950 2253 475 Extension for reply within third month Large Entity Small Entity Fee Paid Fee Description 1254 1,480 2254 740 Extension for reply within fourth month Code (\$) 1255 2,010 2255 1,005 Extension for reply within fifth month 1001 770 Utility filing fee 2001 385 385.00 1401 330 2401 1002 340 2002 170 Design filing fee 165 Notice of Appeal 1003 530 2003 265 Plant filing fee 1402 330 2402 165 Filing a brief in support of an appeal 1004 770 2004 385 1403 290 2403 145 Request for oral hearing Reissue filing fee 1005 160 2005 1451 1,510 1451 Provisional filing fee 1,510 Petition to institute a public use proceeding 1452 2452 110 55 Petition to revive - unavoidable SUBTOTAL (1) | (\$) 385.00 1453 1,330 2453 665 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,330 2501 665 Utility issue fee (or reissue) Ext<u>ra Claim</u>s Fee Paid below 1502 480 2502 240 Design issue fee -20** = 45 Total Claims] x [9 405 1503 640 2503 320 Plant issue fee Independent - 3** = l 4 x 43 1460 130 1460 130 Petitions to the Commissioner Multiple Dependent 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) arge Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt Fee Description 40 Recording each patent assignment per Code (\$) Code (\$) 8021 40 8021 property (times number of properties) 1202 18 2202 9 Claims in excess of 20 1809 770 385 Filing a submission after final rejection 2809 1201 86 2201 43 Independent claims in excess of 3 (37 ČFR 1.129(a)) 1203 290 2203 145 Multiple dependent claim, if not paid 1810 770 385 For each additional invention to be 2810 examined (37 CFR 1.129(b)) 1204 ** Reissue independent claims 86 2204 43 over original patent 1801 770 2801 385 Request for Continued Examination (RCE) ** Reissue claims in excess of 20 900 Request for expedited examination 1205 2205 1802 900 1802 18 9 and over original patent of a design application (\$) 577.00 Other fee (specify) SUBTOTAL (2) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) O **or number previously paid, if greater; For Reissues, see above SUBMITTED BY (Complete (if applicable)) EDMUND J. SEASE Registration No. Name (Print/Type) Telephone 515-288-3667 24,741

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

February 12, 2004

Signature

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT

KANG, Seogchan, et al.

SERIAL NO

(New)

FILED

February 12, 2004

TITLE

A DUAL SELECTION BASED, TARGETED GENE DISRUPTION

METHOD FOR FUNGI AND FUNGUS-LIKE ORGANISMS

Grp./A.U.

:

Examiner

Conf. No.

Docket No.

P06604US00

PETITION TO ACCEPT PHOTOGRAPHS AS DRAWINGS (37 C.F.R. 1.84(b)(2))

COMMISSIONER FOR PATENTS Mail Code P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

- 1. Petition is hereby made to accept photographs in this case.
- 2. Three (3) sets of photographs are submitted herewith.
- 3. The reason why photographs are necessary in this case is as follows:

CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that this document and the documents referred to as enclosed therein are being deposited with the U. S. Postal Service in an envelope as "Express Mail Post Office to Addressee" addressed to: Commissioner of Patents, Mail Stop Patent Application, P. O. Box 1450, Alexandria, VA 22313-1450, prior to 5:00 p.m. on 12th day of February, 2004.

Betty J. Albritton

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Figure 3 shows the growth of Magnaporthe grisea, Fusarium oxysporum, Aspergillus fumigatus, and Botrytis cinerea in the presence of F2dU or Ganciclovir. Wild-type strains (wt) and transformants with ChGPD-HSVtk (tk) of M. grisea (A & E), F. oxysporum (B), A. fumigatus (C), and B. cinerea (D) were grown in the presence of F2dU (A-D) or Ganciclovir (E) at concentrations ranging from 5nM to 50μM (F2dU) or 1μM to 2mM (Ganciclovir).

Respectfully submitted,

EDMUND J. SEASE, Reg. No. 24,741

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Attorneys of Record

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